Algebra 1B Unit 09: Sequences and Series

Content Area: Math

Course(s):
Time Period:
Length:
Status:

Algebra I B
Semester 2
4 cycles
Published

Unit Introduction

Standards

MA.F-IF.A.3 Recognize that sequences are functions, sometimes defined recursively, whose domain is

a subset of the integers.

MA.A-SSE.B.4 Derive and/or explain the formula for the sum of a finite geometric series (when the

common ratio is not 1), and use the formula to solve problems.

Essential Questions

• How can you represent the terms of a sequence explicitly? How can you represent them recursively?

What are equivalent explicit and recursive definitions for an arithmetic sequence?

Content

- Arithmetic Sequences
- Arithmetic Series
- Geometric Sequences
- Geometric Series
- Mathematical Patterns

Skills

- Find common difference of an arithmetic sequence
- Find the common ratio of a geometric sequence
- · Identify mathematical patterns
- Identifying geometric sequences
- Write a recursive formula
- · Write an explicit formula